CLAIMS

We claim:

1. A process for creating a filter for selecting documents, comprising:

 identifying a plurality of profiles;

 creating a sub-filter for each of said plurality of profiles, each of said sub-filters having an input and an output;

 connecting each of said inputs at a single node; and

 combining each of said outputs.

2. A process, as in claim 1, further comprising:

 mutiplexing said outputs of said sub-filters to create a first filter output.

3. A process, as in claim 2, further comprising:

 combining said first filter output with at least one sub-filter output to create at least one second filter output.

4. A process, as in claim 3, further comprising:

 aggregating said first filter output and said second filter output using a function.

5. A process, as in claim 4, wherein said function is a linear function.

6.   A process, as in claim 4, wherein said function is a weighted function.

7.   A process, as in claim 4, wherein said function is a thresholded aggregation function.

8.   A process for creating a filter for selecting documents from a stream of documents, comprising:

        identifying a plurality of sets of documents from said stream of documents;

        identifying a plurality of profiles corresponding to said plurality of sets of documents;

        creating a plurality of sub-filters using said plurality of profiles; and

        combining a first one of said plurality of sub-filters with a second one of said plurality of sub-filters to create an ensemble filter.

9.   A process, as in claim 8, wherein said plurality of sets of documents further comprises:

        a set of documents for training;

        a first coherent set of documents identified from said training set of documents; and

        a remainder set of documents.

10.   A process, as in claim 9, wherein said plurality of profiles further comprises:

        a first profile corresponding to said first coherent set of documents; and.

        a remainder profile corresponding to said remainder set of documents.

11. A process, as in claim 10, wherein said plurality of sub-profiles further comprises:

a first sub-filter created using said first profile; and

a remainder sub-filter created using said remainder profile.

12. A process for creating a filter for selecting documents from a database of documents, comprising:

identifying a plurality of sets of documents from said database of documents;

identifying a plurality of profiles corresponding to said plurality of sets of documents;

creating a plurality of sub-filters using said plurality of profiles; and

combining a first one of said plurality of sub-filters with a second one of said plurality of sub-filters to create an ensemble filter.

13. A process, as in claim 12, wherein said plurality of sets of documents further comprises:

a set of documents for training;

a first coherent set of documents identified from said training set of documents; and

a remainder set of documents.

14. A process, as in claim 13, wherein said plurality of profiles further comprises:

a first profile corresponding to said first coherent set of documents; and.

a remainder profile corresponding to said remainder set of documents.

15.   A process, as in claim 14, wherein said plurality of sub-profiles further comprises:

a first sub-filter created using said first profile; and

a remainder sub-filter created using said remainder profile.